

**Mouse Anti-ROR gamma/RORC [RORC/2941]: MC0674, MC0674RTU7**

**Intended Use:** For Research Use Only

**Description:** This antibody recognizes a protein of 63kDa, identified as ROR gamma or ROR C. Its epitope maps in between aa1-50. The nuclear orphan receptors ROR and ROR are members of the nuclear hormone receptor superfamily. Members of this family act by directly associating with DNA sequences known as hormone response elements (HREs) and typically bind DNA as either homo- or heterodimers. RORalpha and RORgamma are unique in that they bind DNA as monomers. RORalpha has multiple isoforms that share common DNA and putative ligand-binding domains, but differ in their amino terminal domains, which are generated by alternative RNA processing. RORgamma comprises a 560 amino acid protein that shares 50% amino acid identity with RORalpha and is most highly expressed in skeletal muscle. Although these proteins are considered orphan receptors, due to a lack of defined ligands, experimental evidence has shown that melatonin may be the natural ligand for these nuclear receptors.

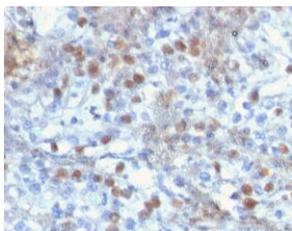
**Specifications:**

Clone: RORC/2941  
 Source: Mouse  
 Isotype: IgG2a/k  
 Reactivity: Human  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt.  
 Package:

Description	Catalog No.	Size
ROR Gamma/ RORC [RORC/2941] Concentrated	MC0674	1 ml
ROR Gamma/ RORC [RORC/2941] Prediluted	MC0674RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Lymphocytes, liver or skeletal muscle tissue, MOLT4 cells  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human kidney stained with anti-ROR gamma using DAB

**References:**

1. ROR-γ drives androgen receptor expression and represents a therapeutic target in castration-resistant prostate cancer. Wang J et al. Nat Med. 2016.
2. RORC1 Regulates Tumor-Promoting "Emergency" Granulo-Monocytopenia. Strauss L et al. Cancer Cell. 2015.
3. The expression of Foxp3 and ROR gamma t in lung tissues from normal smokers and chronic obstructive pulmonary disease patients. Chu S et al. Int Immunopharmacol. 2011.

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Rev. A